

October 24 - 31, 2003

<P>The Terra spacecraft is in nominal mode. All instruments are in Science Mode.</P>

<P>The Solid State Recorder (SSR) Anomaly Investigation Team met on Wednesday, October 29, 2003, continuing the investigation of the string of SSR Printed Wire Assembly (PWA) anomalies that occurred on July 30, Sept. 24 and 25, and Oct. 14, 2003. The team is focusing on component materials and is reviewing the parts list, while examining commonalities among the anomalies and potential correlation to orbital and space weather effects. A review of the investigation status was provided to NASA Headquarters Code Y personnel on Oct. 31, and the anomaly team will convene again on November 5.</P>

<P>A high number of High Gain Antenna (HGA) Motor Drive Assembly (MDA) resets from solar proton-induced Single Event Upsets (MDA2BITE failures) occurred (in association with the large Coronal Mass Ejections) on Oct. 28-29, 2003. The timing of these events resulted in a small amount of MISR data loss as it was not possible to get the HGA reconfigured in time to complete the SSR dump during a specific pass. Reaction Wheels are running higher during specific intervals around the poles due to the fact that the Three-Axis Magnetometer (TAM) is briefly saturating during polar traverses as a result of the high solar particle flux.</P>

<P>A 20.7-second Drag Make-up Maneuver was successfully executed at 1813 UTC on October 31.</P>

<P>Plans:

The lunar calibration roll maneuver for MODIS for November will not be conducted due to the fact that it would need to occur close to one of the predicted peaks of the Leonid meteor shower.</P>